



# D0 Status Report

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FNAL

All Experimenters' Meeting  
14 March 2011



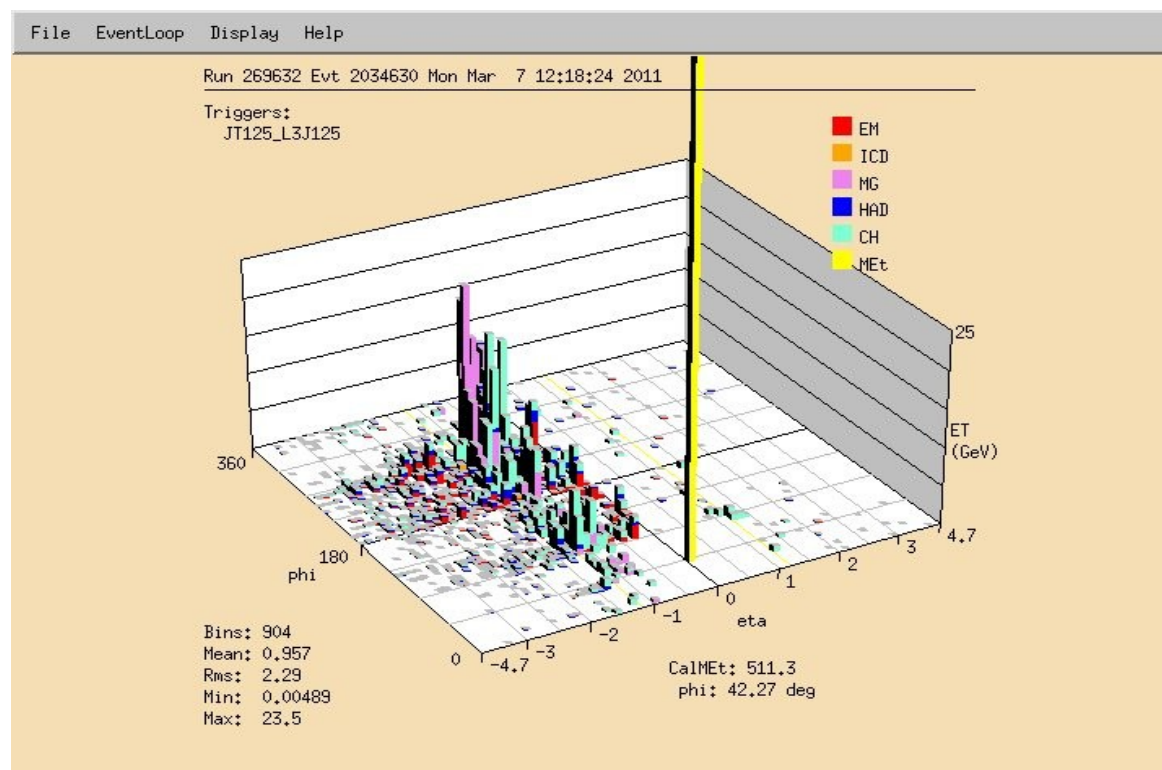
# Data Taking

	Delivered Lum (pb <sup>-1</sup> )	Recorded Lum (pb <sup>-1</sup> )	Efficiency (%)	Comment
7 Mar	0.00	0.00		
8 Mar	0.00	0.00		
9 Mar	0.00	0.00		
10 Mar	0.00	0.00		
11 Mar	0.00	0.00		
12 Mar	2.51	2.21	88	40 minutes down due to a forward muon power supply failure late in the store.
13 Mar	3.58	3.30	92	Access to replace power supply. Access to recover silicon channels.
<b>7-13 Mar</b>	<b>6.1</b>	<b>5.5</b>	<b>90</b>	
<b>February</b>	<b>165.0</b>	<b>152.9</b>	<b>92.7</b>	<b>5<sup>th</sup> best monthly efficiency.</b>



# Calorimeter Noise

- During store 8556 (the last store before the shutdown) low rate noise was observed in some D0 calorimeter triggered events.
  - Following this store, and for the first day of the shutdown, D0 performed a hunt for the source of this noise.
  - Many pieces of equipment were turned off.
    - Some did not recover without being repaired.
  - During this process, the noise went away
  - The full detector was turned on and so far no further sign of this noise has been observed.





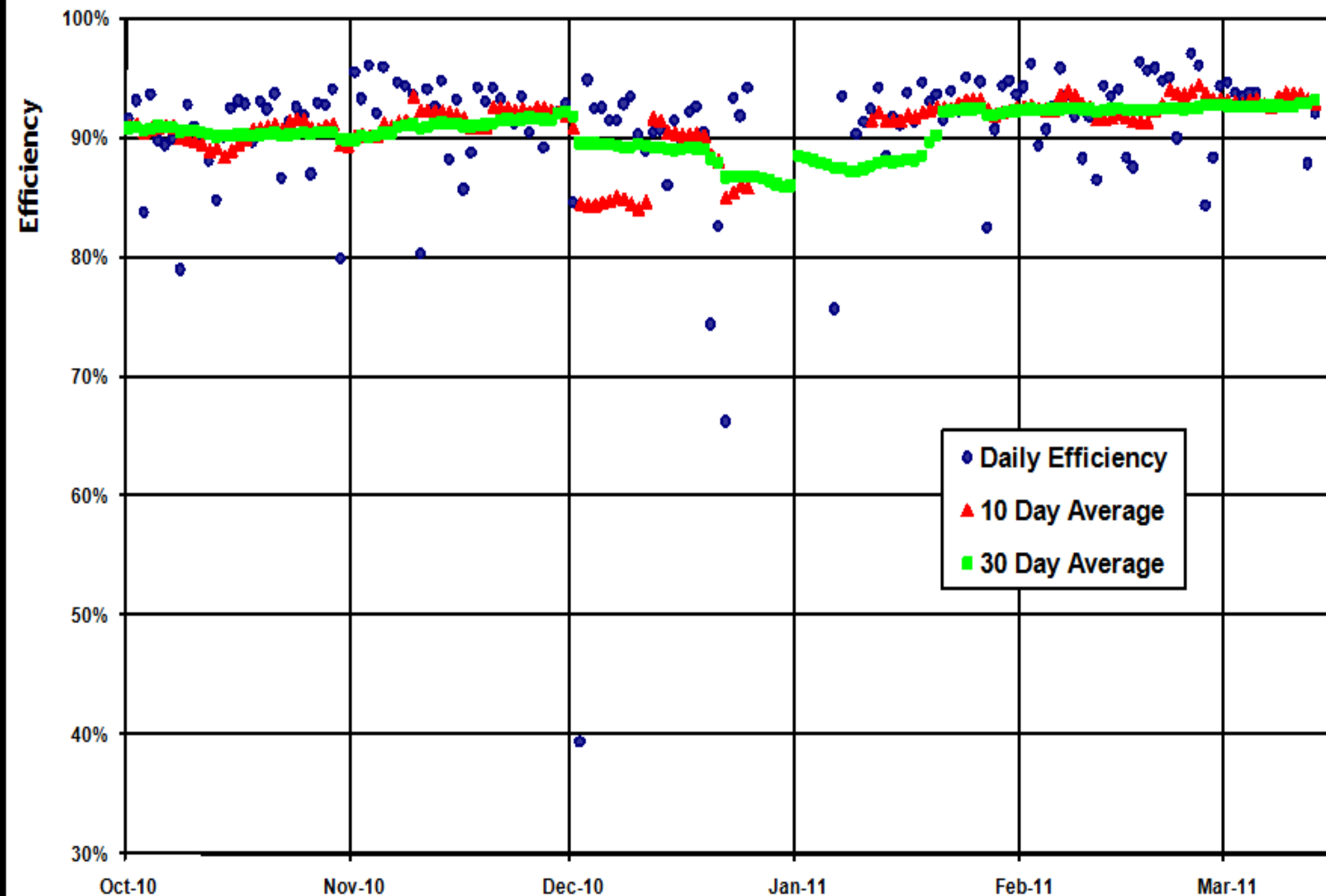
# Shutdown Significant Events

- Calorimeter noise investigation and recovery.
- Recovered individual channels
  - Calorimeter, Muon, and Silicon.
- Replaced a trigger framework board to address water damage.
- Located and repaired a leaking muon gas relief valve.
- Tested the updated fiber tracker firmware.
- Installed 5 of 6 of “R2D0” devices.
  - These provide a secondary silicon sequencer power supply.
- Swapped the toroid power supply reference module.
- Interlocks were unintentionally dropped.
  - Moved to supervised access.
  - Appreciate search and secure team coming over Thursday evening.



# Daily Data Taking Efficiency

1 October 2010 - 13 March 2011





# Run II Integrated Luminosity

19 April 2002 - 13 March 2011

